

Serial No. 10/665,530

Docket No. MEMS-0178-USReply to Office Action dated March 16, 2006RECEIVED
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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 - 14. Canceled.

15. (Currently Amended) A multi-optical element device comprising:

at least a reference optical element;

a mounting system, wherein said mounting system is formed by etching substrate(s) to form a recess to receive a the reference optical element, where said recess at least partially conforms to the shape of said reference optical element, and where said reference optical element is attached to said recess in said substrate, said mounting system contains etched substrate(s) forming etched structures upon which optical devices can be attached; and

at least a first optical element attached to a predetermined structure of said etched structures.

16. (Original) The multi-optical element device according to claim 15, wherein said reference optical element and/or said first optical element are made from glass.

17. (Original) The multi-optical element device according to claim 15, wherein said reference optical element and/or said first optical element are made from GaP.

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18. (Original) The multi-optical element device according to claim 15, wherein said etched structure is covered with a filling compound to change the index of refraction.

19. (Original) The multi-optical element device according to claim 18, wherein the filling compound is Epoxy-Master Bond EP19HT.

20. (Original) The multi-optical element device according to claim 15, wherein the size of said reference and first optical elements are between 1 meter and 1 nanometer.

21. (Original) The multi-optical element device according to claim 15, wherein the size of said reference and first optical elements are between tens of centimeters and 1 nanometer.

22. (Original) The multi-optical element device according to claim 15, wherein the size of said reference and first optical elements are between several millimeters and 1 nanometer.

23. (Previously Presented) The multi-optical element device according to claim 18, wherein the size of said reference and first optical elements are between several millimeters and 1 nanometer.

24. (Currently Amended) The multi-optical element device according to claim 15, wherein the reference optical element and the first optical element are aligned along the substantially the same optical axis.

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25. (Currently Amended) The multi-optical element device according to claim 15, wherein the reference optical element and the first optical element are aligned in the a substantially perpendicular direction with respect to a line through the center of each optical element.

26. (Currently Amended) The multi-optical element device according to claim 15, wherein the reference optical element is a lens having a convex surface and wherein said recess has a curved shape to at least partially conform to the convex shape of said reference optical element.

27. (Previously Presented) The multi-optical element device according to claim 15, wherein said etched structure forms a cavity and wherein said reference optical element is located inside said cavity and the filling compound is used to fill said cavity.